NAVSEA
PORT HUENEME
Surface Warfare Center Division

Command & Control Switchboards Program Office FMP ESC Meeting 9 August 2001

"*We are Committed to Safe, Effective and Affordable Warfare Systems that Enable Ships and Sailors to Fight and Win.*"

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Description

Typical Combat System Switchboard MK 70 (1 Section)

Interior Communication Switchboard (1 Section)

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Switchboard Population

COMBAT SYSTEM SWITCHBOARDS

NO.	SHIP CLASS	SHIPS DESCRIPTION	Ships in Active fleet	NO. of CS SWBDs/Ship	NO. SWBDs Under ISEA Cog.	COMBAT SYS SWBD	PHD Responsible
1	CG 47	GUIDED MISSILE CRUSIER	27	1	27	MK 16	Y
2	CV 63	AIRCRAFT CARRIER	2	1	2	MK 70	Y
3	CV 66	AIRCRAFT CARRIER	1	1	1	MK 70	Y
4	CVN 65	AIRCRAFT CARRIER, NUCLEAR PROPULSION	1	1	1	MK 70	Y
5	CVN 68	AIRCRAFT CARRIER, NUCLEAR PROPULSION	8	1	8	MK 70	Y
6	DD 963	DESTROYER	24	1	24	MK 59	Y
7	FFG 7	GUIDED MISSILE FRIGATE	34	1	34	MK 60	Y
8	LHA 1	AMPHIBIOUS ASSAULT SHIP	5	1	5	MK 70	Y
9	LHD 1	HELICOPTER/DOCK LANDING SHIPS	7	1	7	MK 70	Y
		Sub Totals for Active Surface Fleet under ISEA Cognizance:	109		109		

INTERIOR COMMUNICATION SWITCHBOARDS

NO.	SHIP CLASS	SHIP DESCRIPTION	Ships in Active fleet	NO. of IC SWBDs/Ship	NO. SWBDs Under ISEA Cog.	Type IC SWBDs	PHD Responsible
1	AGF	MISCELLANEOUS COMMAND SHIP	2	1	2	Main IC	Y
2	AOE 1	FAST COMBAT SUPPORT SHIPS	4	1	4	Main IC	Y
3	AOE 6	FAST COMBAT SUPPORT SHIPS	4	1	4	Main IC	Y
4	ARS	SALVAGE SHIP	4	1	4	Main IC	Y
5	CG 47	GUIDED MISSILE CRUSIER	27	3	81	Main #1, #2, #3	Y
6	CV 63	AIRCRAFT CARRIER	2	2	4	Main Fwd, Aft	Y
7	CV 66	AIRCRAFT CARRIER	1	2	2	Main Fwd, Aft	Y
8	CVN 65	AIRCRAFT CARRIER, NUCLEAR PROPULSION	1	2	2	Main Fwd, Aft	Y
9	CVN 68	AIRCRAFT CARRIER, NUCLEAR PROPULSION	8	2	16	Main Fwd, Aft	Y
10	DD 963	DESTROYER	24	2	48	Main #1, #2	Y
11	DDG 51	DESTROYER GUIDED MISSILE	31	2	62	Main #1, #2	Y
12	FFG 7	GUIDED MISSILE FRIGATE	34	2	68	Main & CSIC	Y
13	LCC 19	AMPHIBIOUS COMMAND SHIP	2	1	2	Main IC	Y
14	LHA 1	AMPHIBIOUS ASSAULT SHIP	5	3	15	Main, Secondary, Local	Y
15	LHD 1	HELICOPTER/DOCK LANDING SHIPS	7	3	21	Main #1, #2, Local	Y
16	LPD 1	AMPHIBIOUS TRANSPORT DOCKING SHIP	3	1	3	Main IC	Y
17	LPD 7	AMPHIBIOUS TRANSPORT DOCKING SHIP	6	1	6	Main IC	Y
18	LPD 14	AMPHIBIOUS TRANSPORT DOCKING SHIP	2	1	2	Main IC	Y
19	LSD 36	AMPHIBIOUS TRANSPORT DOCKING SHIP	3	1	3	Main IC	Y
20	LSD 41	DOCK LANDING SHIP	8	2	16	Main IC	Y
21	LSD 49	DOCK LANDING SHIP	4	2	8	Main IC	Y
21	LST	DOCK LANDING SHIP	1	2	2	Main IC	Y
22	MCM 1	MINE COUNTERMEASURES SHIP	14	1	14	Main IC	Y
23	MHC 51	MINE WARFARE SHIP	11	1	11	Main IC	Y
		Sub Totals for Active Surface Fleet under ISEA Cognizance:	208		400		
		TOTAL	**208**		**509**		

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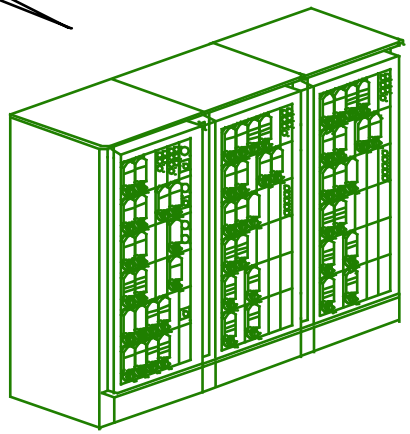
Typical Combat System Switchboard Interfaces



2D Air Search Radar SPS-49

Combat Simulation Test System AN/SSQ-9

Flag Data Display System (USQ-82)

UPX-29

Surface Search Radar AN/SPS-67

SPN-35

3D Air Search Radar AN/SPS-48

Advanced Combat Direction System

Electronic Warfare SLQ-32

USQ-74 (LINK 11)

Radar AN/SPN-43

SYQ-9 (JIC) (Data Processing Console)

Integrated Automatic Detection & Tracking System AN/SYS-2

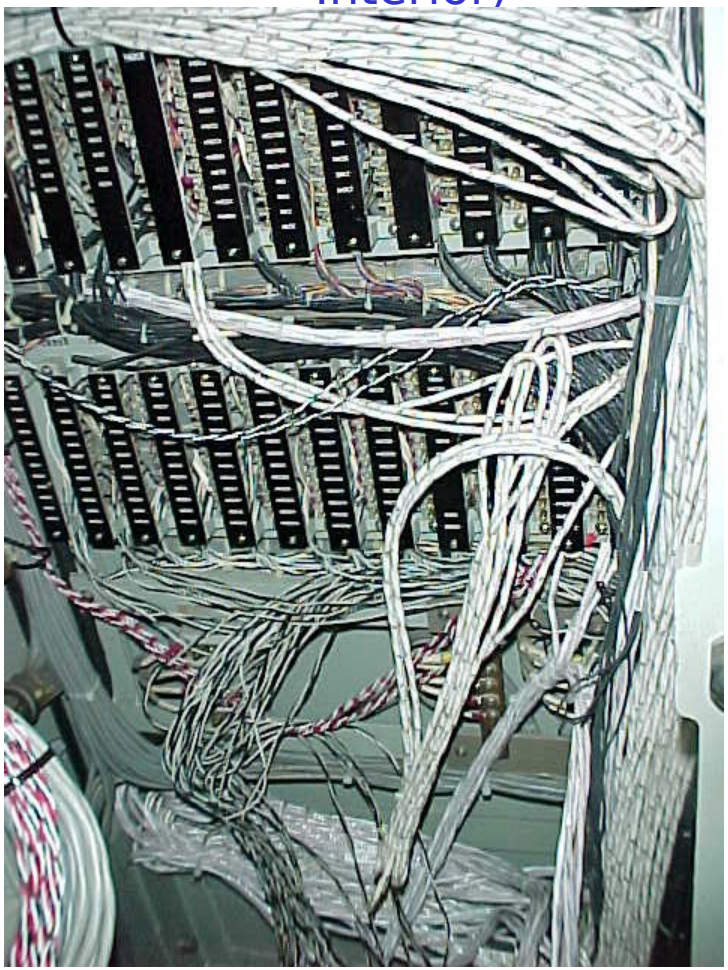
Monitor Control Console USQ-69

Target Acquisition System MK 23

Simple Technology

Combat System Switchboard MK 70 (During Switchboard Groom)

Interior Communication Switchboard (Photo Taken Of Interior)



Issues

- FMP Manual is insufficient regarding conjunctive alterations
- PHD's Switchboard Program's involvement with SHIPALTs varies from program to program
- PHD's Switchboard Program has difficulty justifying budgets to their OPNAV Sponsor
  - OPNAV Sponsor cut all funding for conjunctive switchboard alterations to support SPAWAR SHIPALTs.
- PHD's Switchboard Program has difficulty executing budgets when installation schedules are driven by other program managers.
- Due to unresolved funding issues multiple programs are making unauthorized/undocumented configuration changes to CS & IC switchboards.

FMP ESC Assistance

- Short Term: Include PHD NSWC on distribution of SARs that might impact CS or IC Switchboards
  - Request SPMs, NAVAIR and SPAWAR identify POCs for PHD to coordinate with
- Establish a working group to address SHIPALT to conjunctive equipment alteration issues
  - Who identifies interface impacts for alterations?
  - When should affected parties be involved in the SHIPALT process?
  - Who should be responsible for funding conjunctive alterations?
  - How do you POM for and execute budgets to schedules driven by other programs?
- Update FMP Manual to address conjunctive alterations